

REPLACEMENT SHEET

Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW

Applicant: Pourdeyhimi et al.

Serial No.: 10/669,541

Atty Docket: 297/185/2

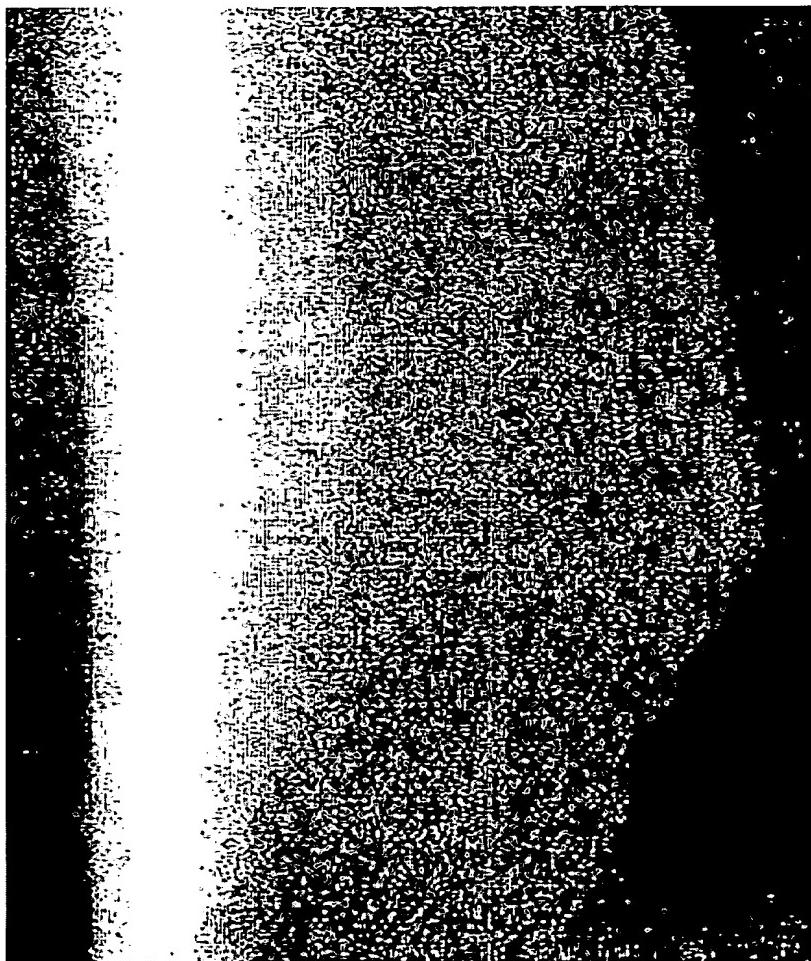


FIG. 1A

REPLACEMENT SHEET

Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

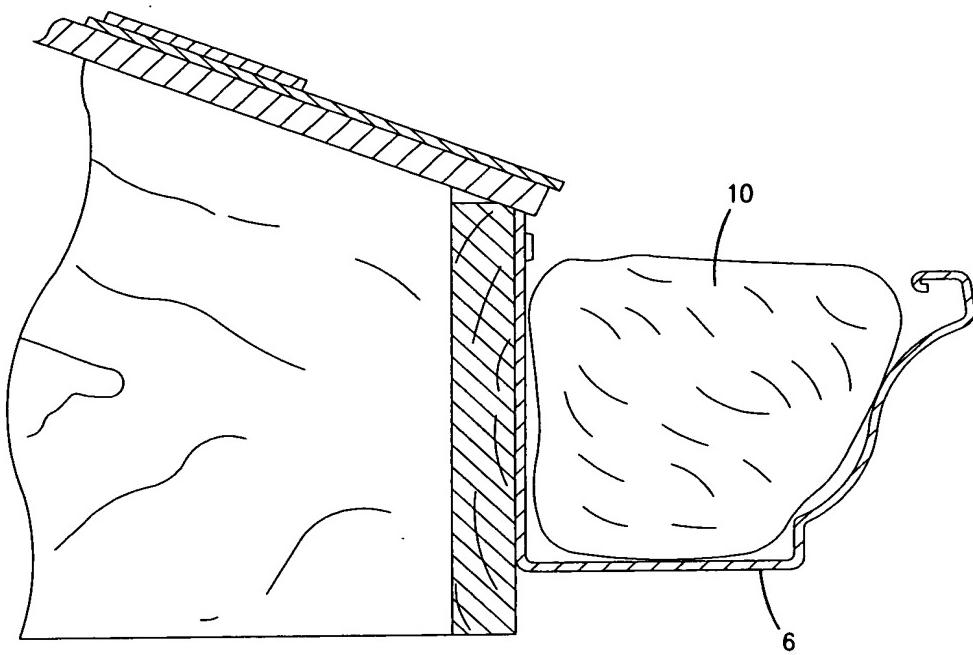


FIG. 1B

REPLACEMENT SHEET

Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW

Applicant: Pourdeyhimi et al.

Serial No.: 10/669,541

Atty Docket: 297/185/2

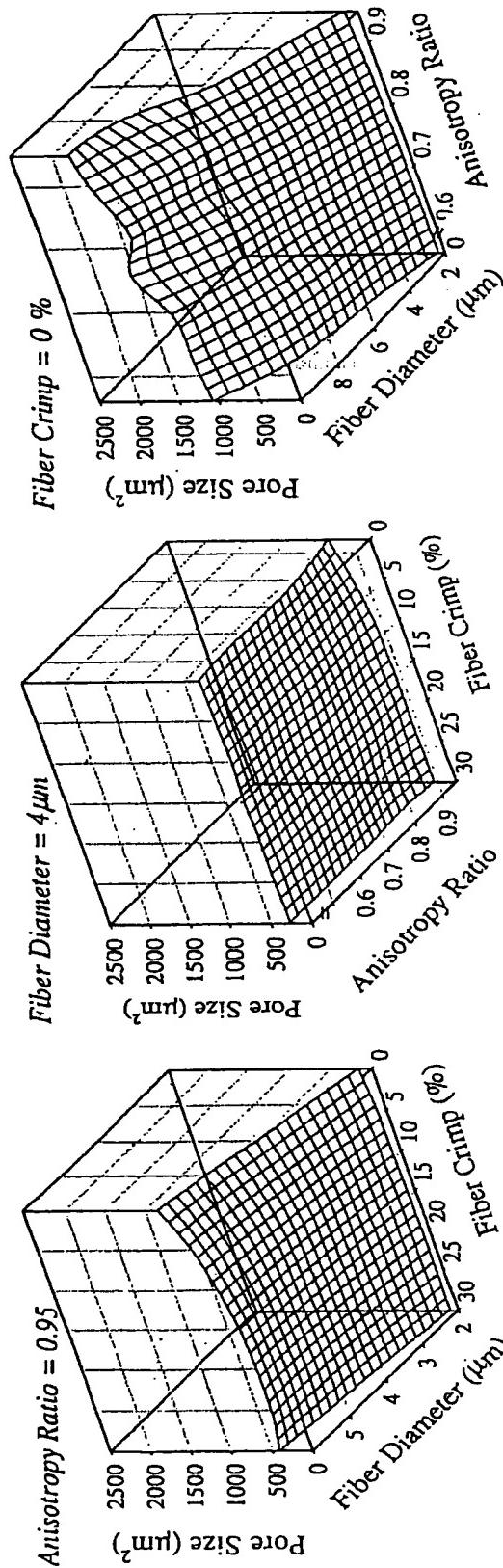


FIG. 2A
FIG. 2B
FIG. 2C

REPLACEMENT SHEET

Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW

Applicant: Pourdeyhimi et al.

Serial No.: 10/669,541

Atty Docket: 297/185/2

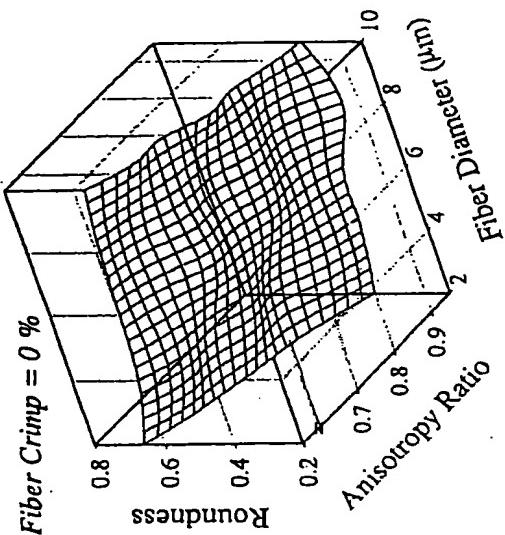


FIG. 3C

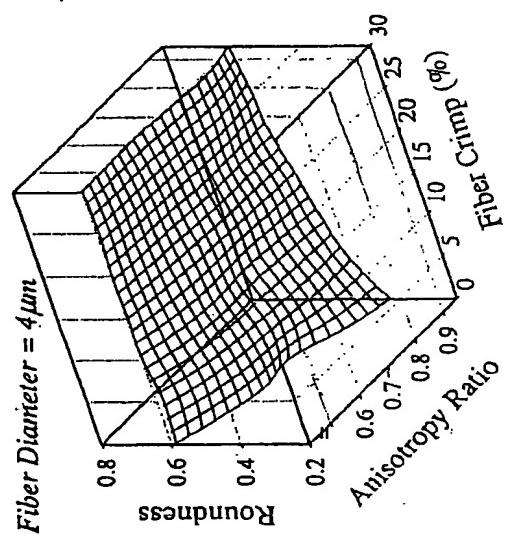


FIG. 3B

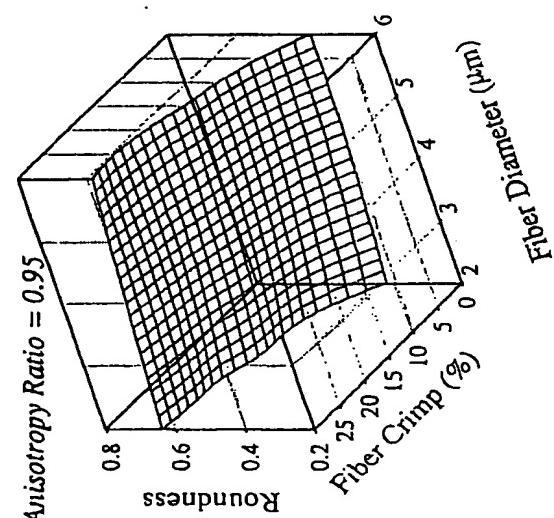


FIG. 3A

REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

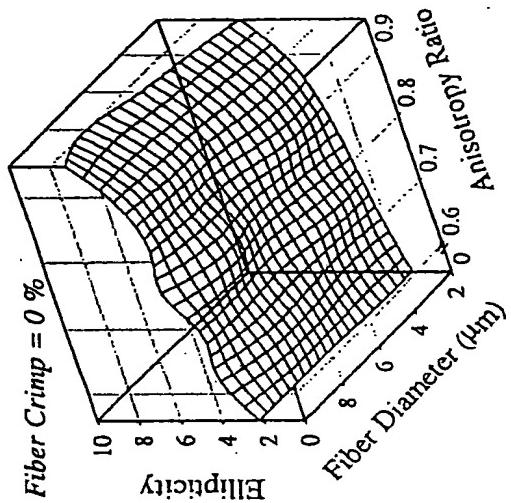


FIG. 4C

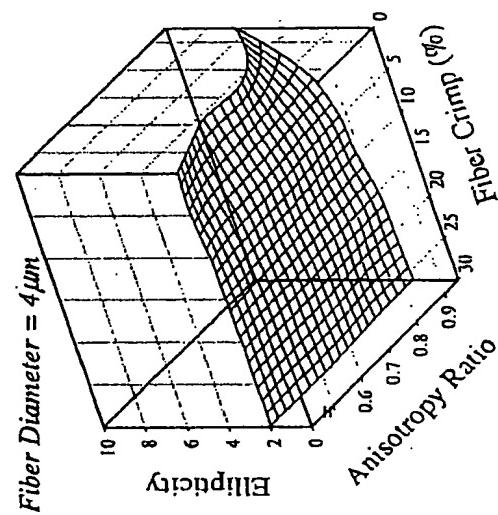


FIG. 4B

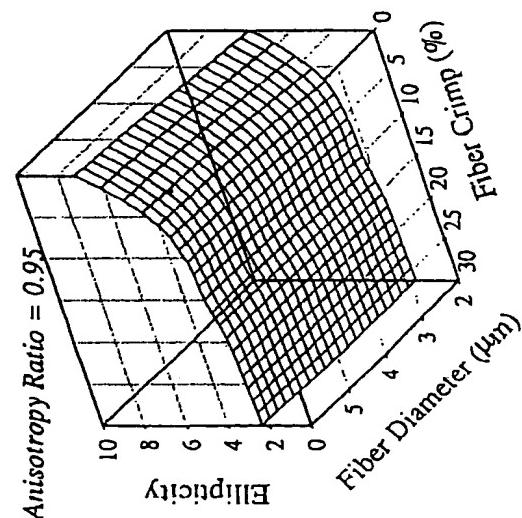


FIG. 4A

REPLACEMENT SHEET

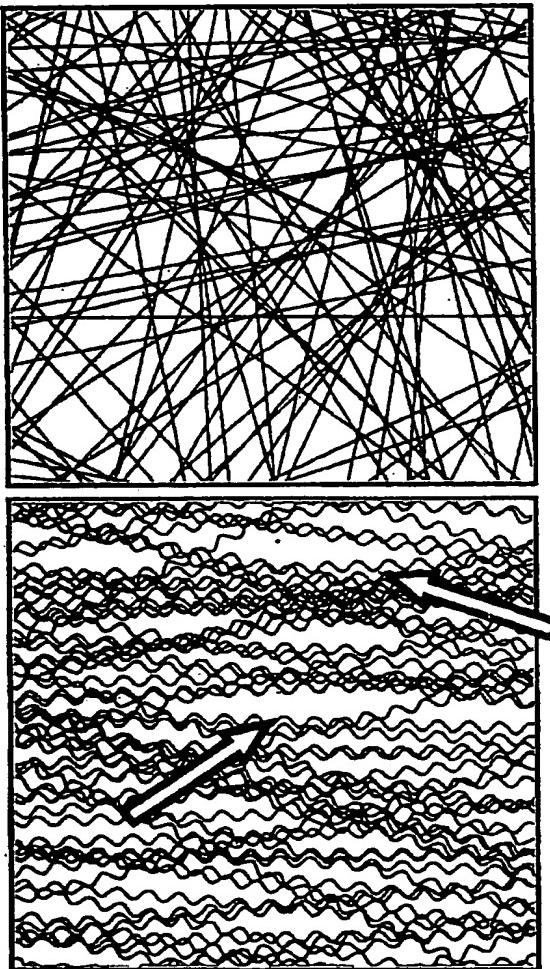
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW

Applicant: Pourdeyhimi et al.

Serial No.: 10/669,541

Atty Docket: 297/185/2

**FIG. 5A
FIG. 5B**



Normal ODF

Mean = 90

std dev = 10

Anisotropy Ratio = 0.95

Fiber Diameter = 6 μm

Crimp = 30 %

Random ODF

Min = 0

Max = 179

Anisotropy Ratio = 0.00

Fiber Diameter = 6 μm

Crimp = 0 %

REPLACEMENT SHEET

Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW

Applicant: Pourdeyhimi et al.

Serial No.: 10/669,541

Atty Docket: 297/185/2

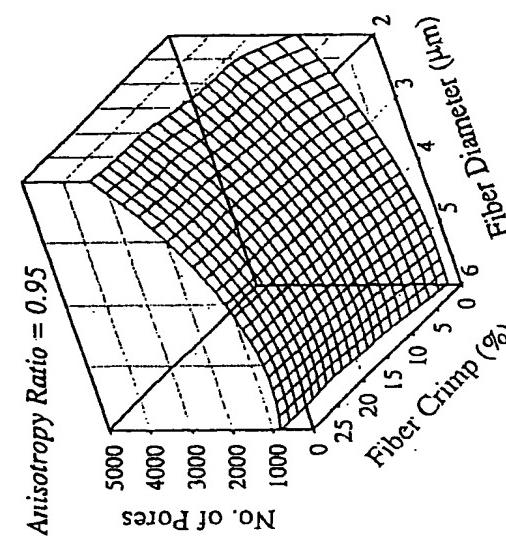
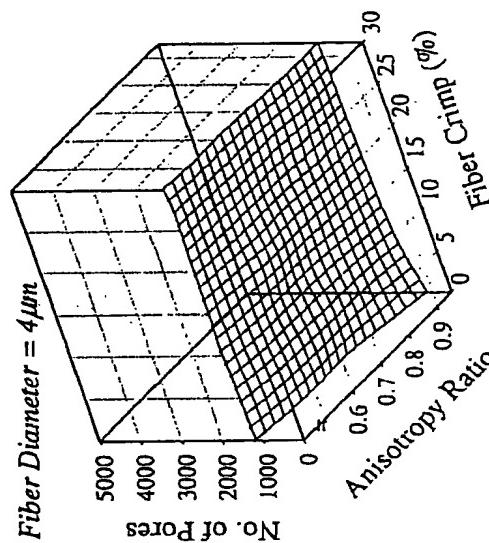
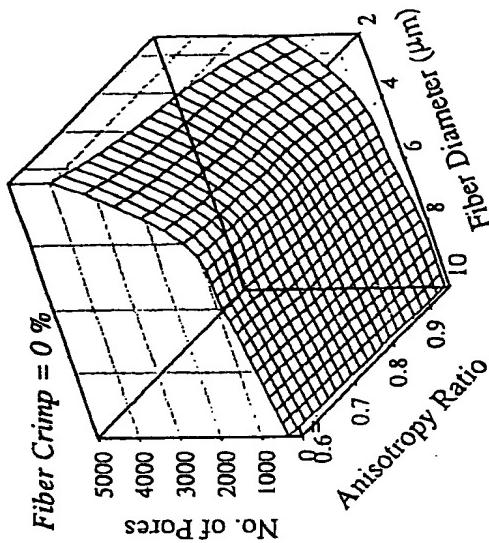


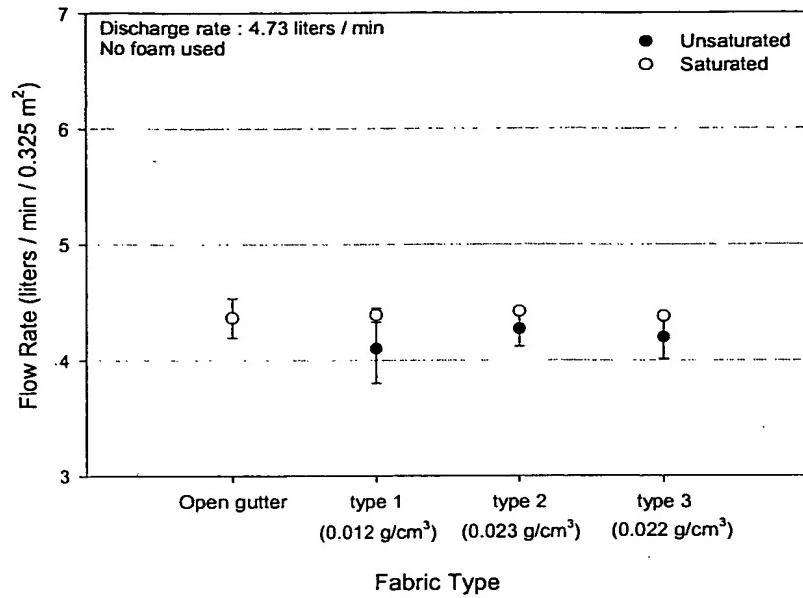
FIG. 6A

FIG. 6B

FIG. 6C

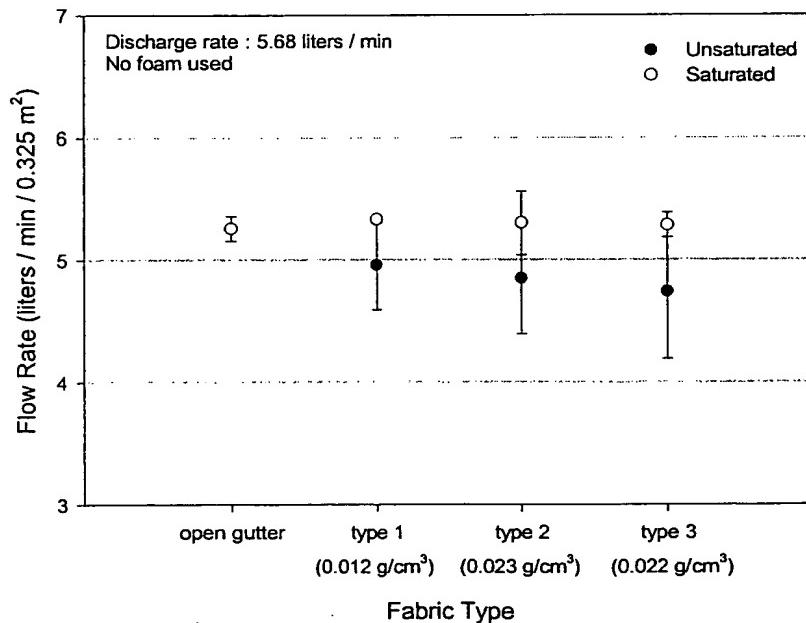
REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

FIG. 7



Fabric Type vs. Flow Rate at 4.73 liters/min discharge

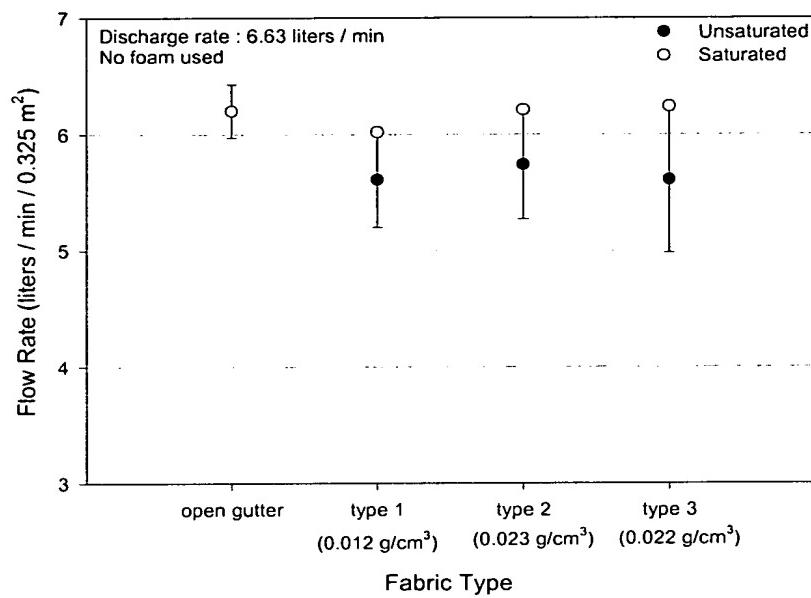
FIG. 8



Fabric Type vs. Flow Rate at 5.68 liters/min discharge

REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

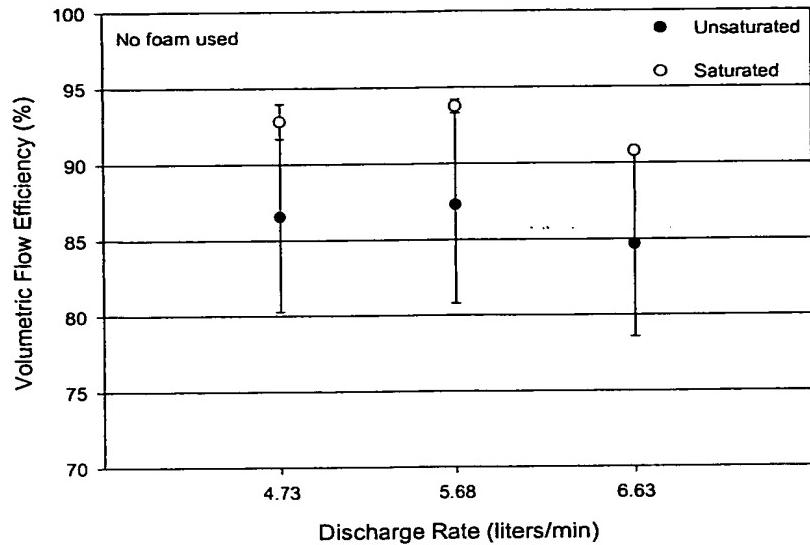
FIG. 9



Fabric Type vs. Flow Rate at 6.63 liters/min discharge

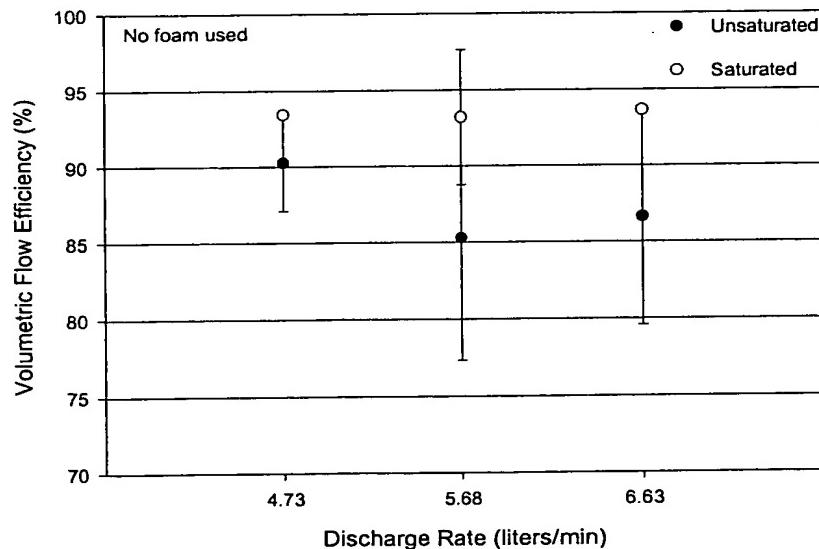
REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

FIG. 10



Vol. Flow Efficiency of Type 1 sample at different discharge rates

FIG. 11

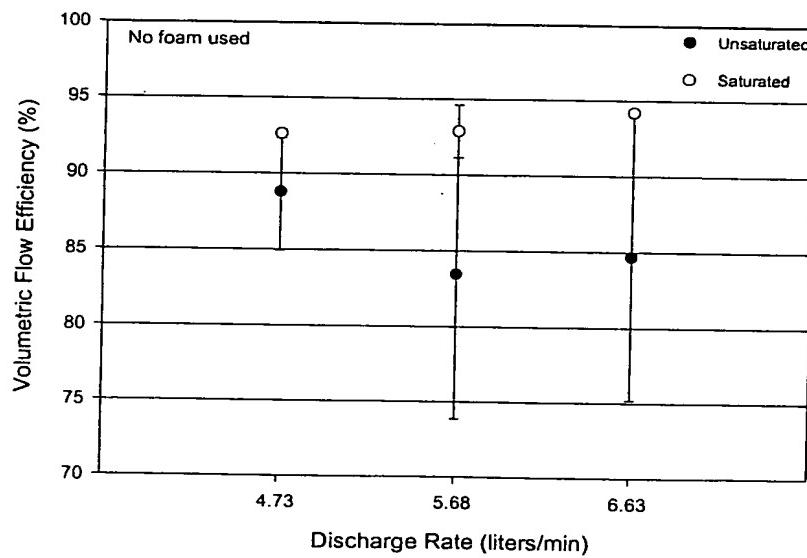


Vol. Flow Efficiency of Type 2 sample at different discharge rates

REPLACEMENT SHEET

Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

FIG. 12



Vol. Flow Efficiency of Type 3 sample at different discharge rates

REPLACEMENT SHEET

Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW

Applicant: Pourdeyhimi et al.

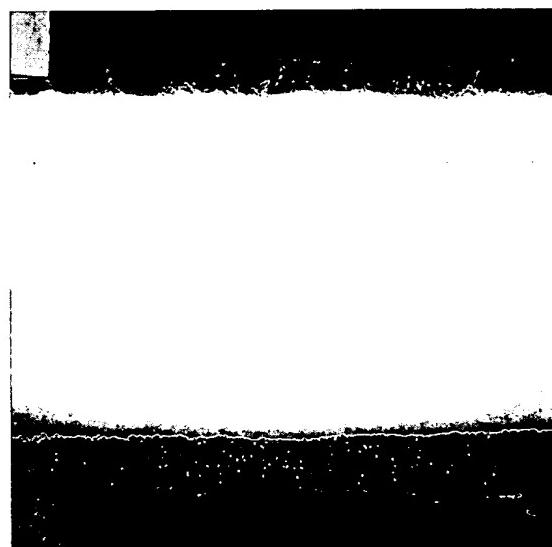
Serial No.: 10/669,541

Atty Docket: 297/185/2



Yellow foam material (left) under a highloft

FIG. 13A

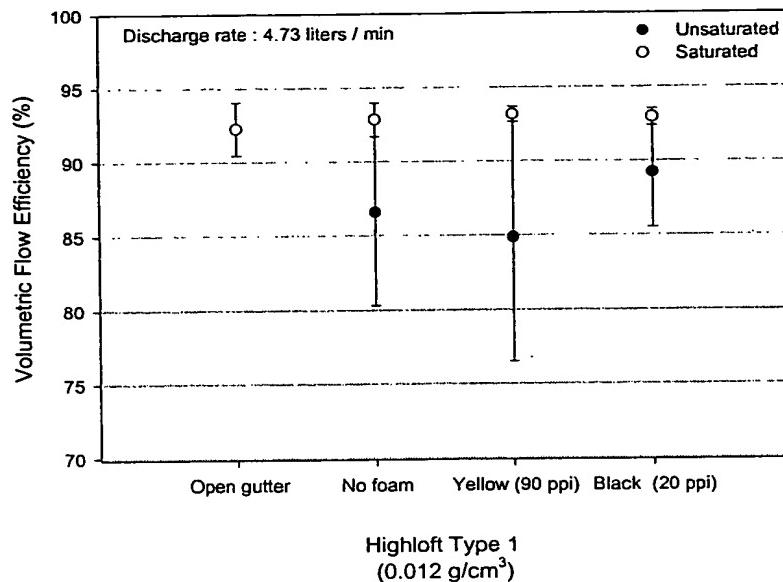


Black foam material (right) under a highloft

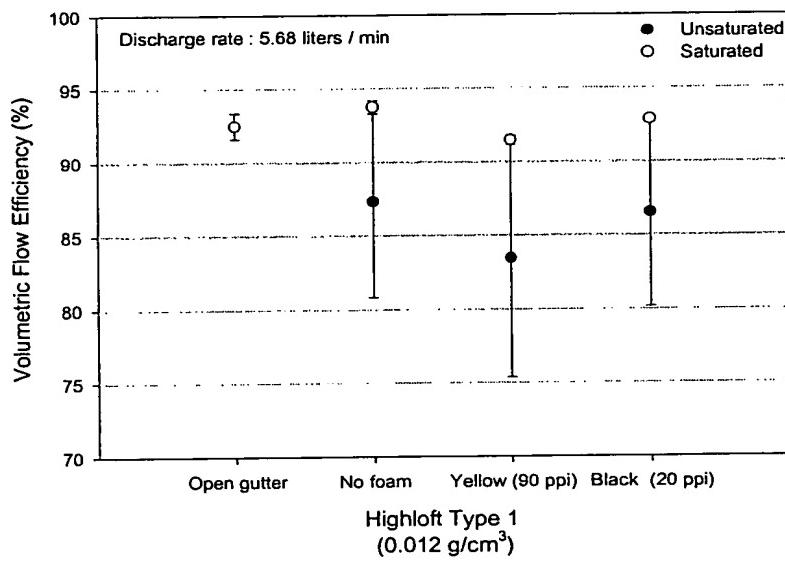
FIG. 13B

REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

FIG. 14



**Type 1 (under the presence of different foams) VS.
Vol. Flow Efficiency at 4.73 liters/min**

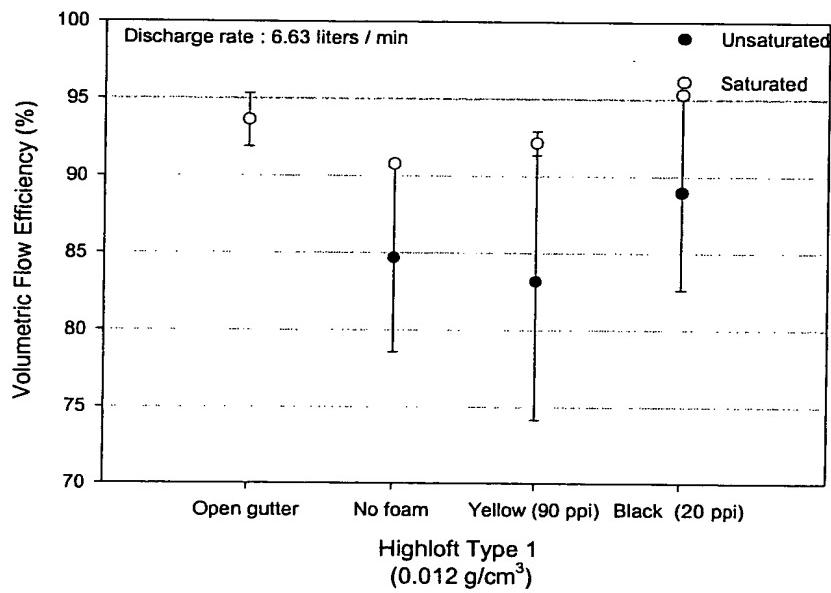


Highloft Type 1 (under the presence of different foams) vs. Vol. Flow Efficiency at 5.68 liters/min

FIG. 15

REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

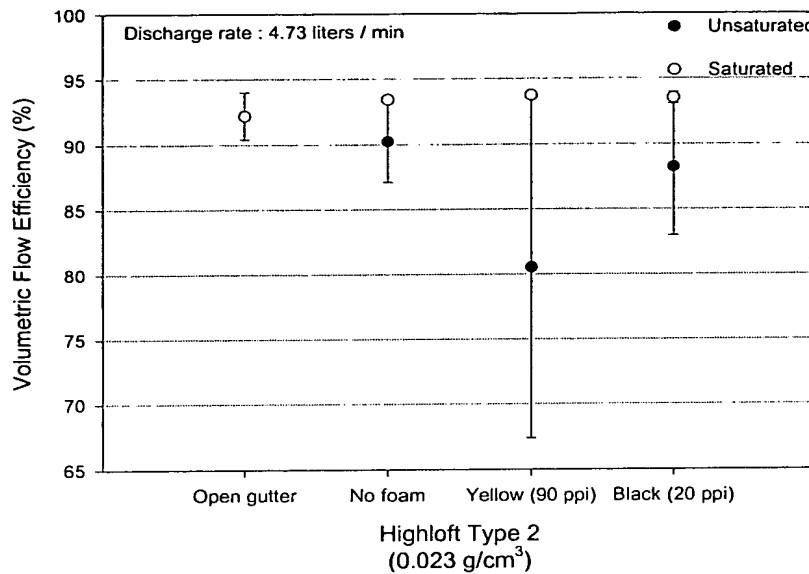
FIG. 16



**Highloft Type 1 (under the presence of
different foams) vs. Vol. Flow Efficiency at 6.63 liters/min**

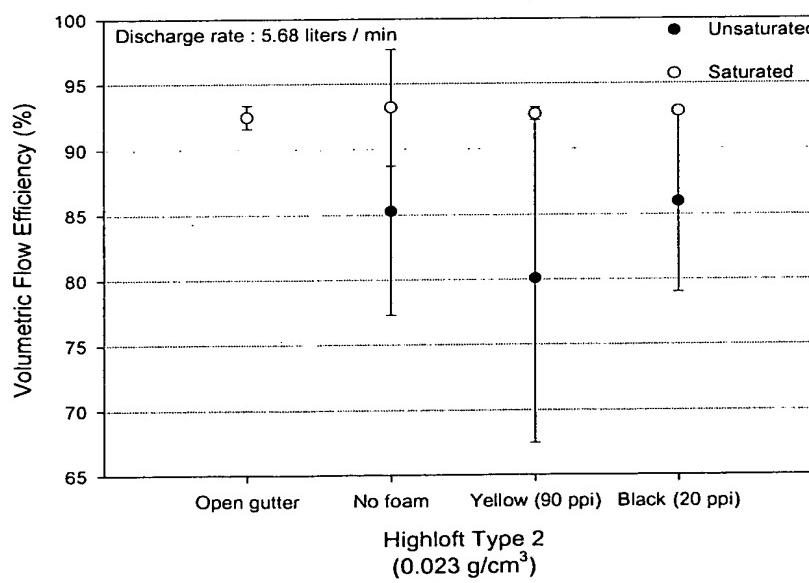
REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

FIG. 17



**Highloft Type 2 (under the presence of different foams) vs.
Vol. Flow Efficiency at 4.73 liters/min**

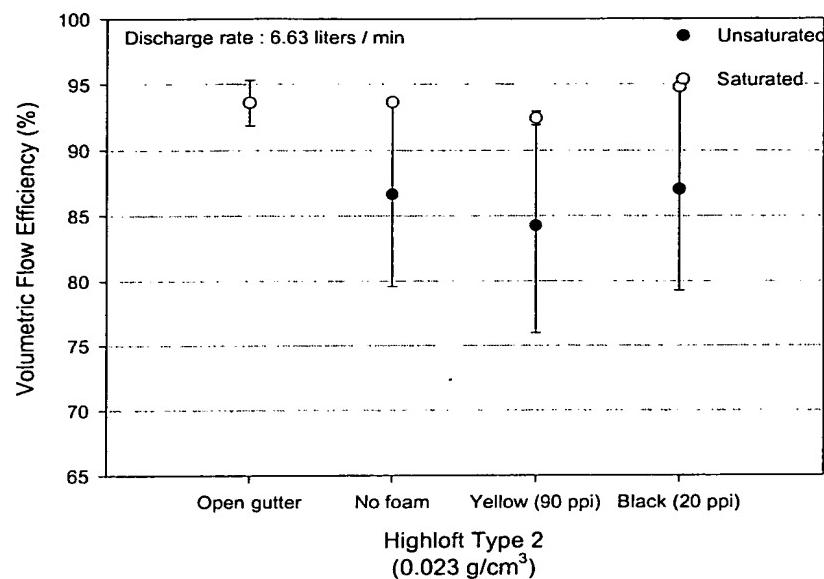
FIG. 18



**Highloft Type 2 (under the presence of different foams) vs.
Vol. Flow Efficiency at 5.68 liters/min**

REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

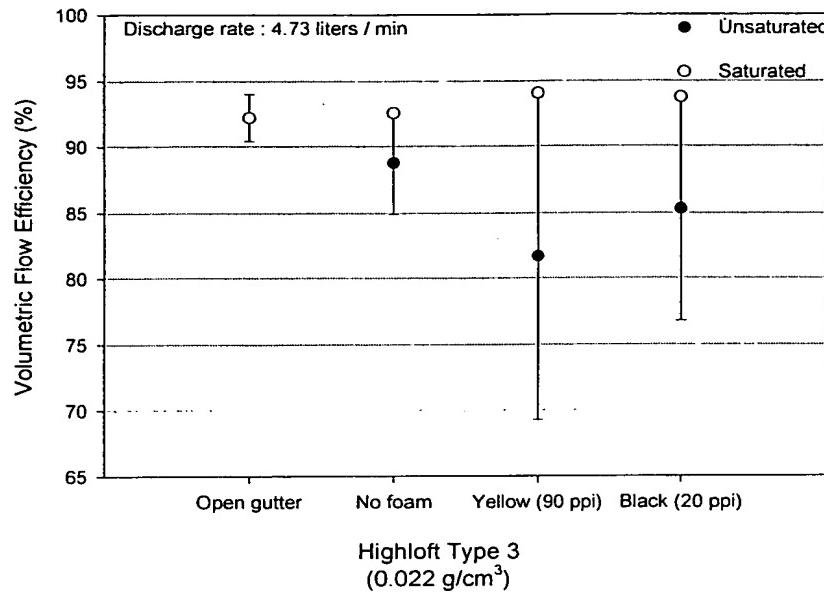
FIG. 19



**Highloft Type 2 (under the presence of different foams) vs.
Vol. Flow Efficiency at 6.63 liters/min**

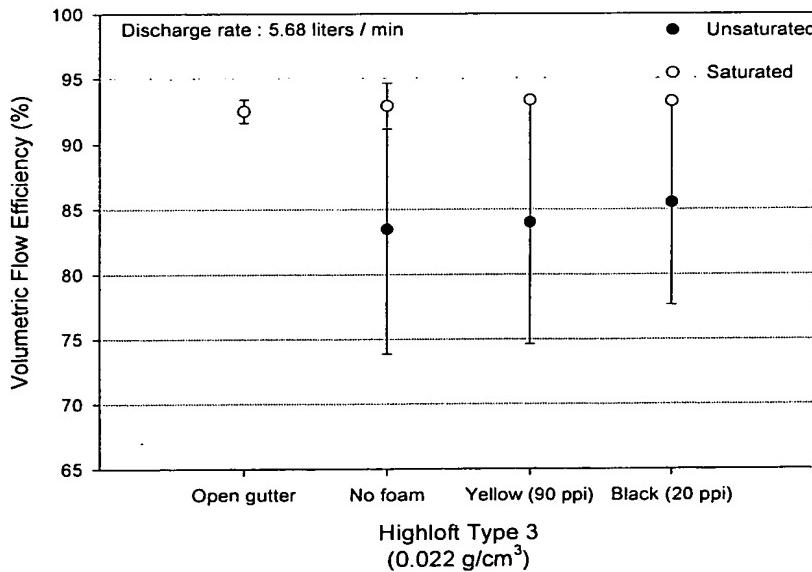
REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

FIG. 20



Highloft Type 3 (under the presence of different foams)
vs. Vol. Flow Efficiency at 4.73 liters/min

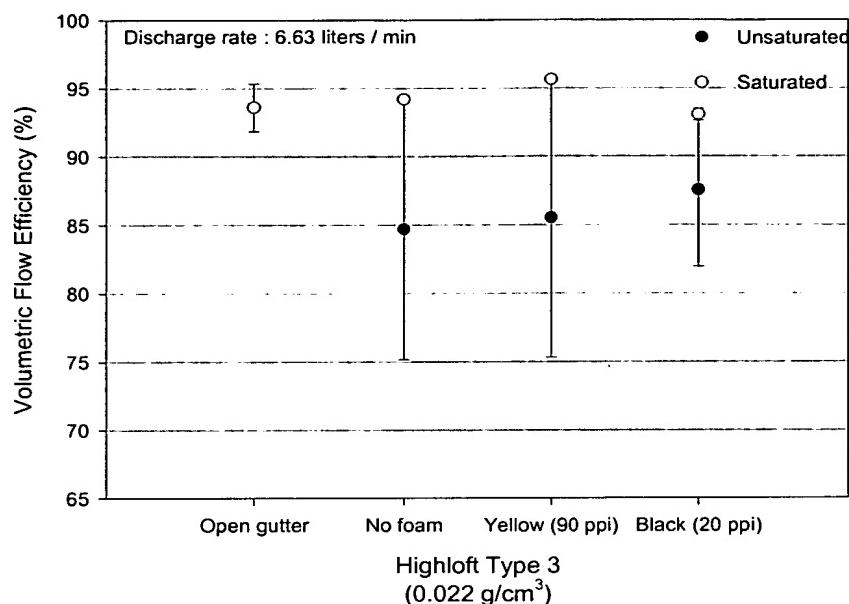
FIG. 21



Highloft Type 3 (under the presence of different foams) vs.
Vol. Flow Efficiency at 5.68 liters/min

REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

FIG. 22



**Highloft Type 3 (under the presence of different foams) vs.
Vol. Flow Efficiency at 6.63 liters/min**

REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

FIG. 23A

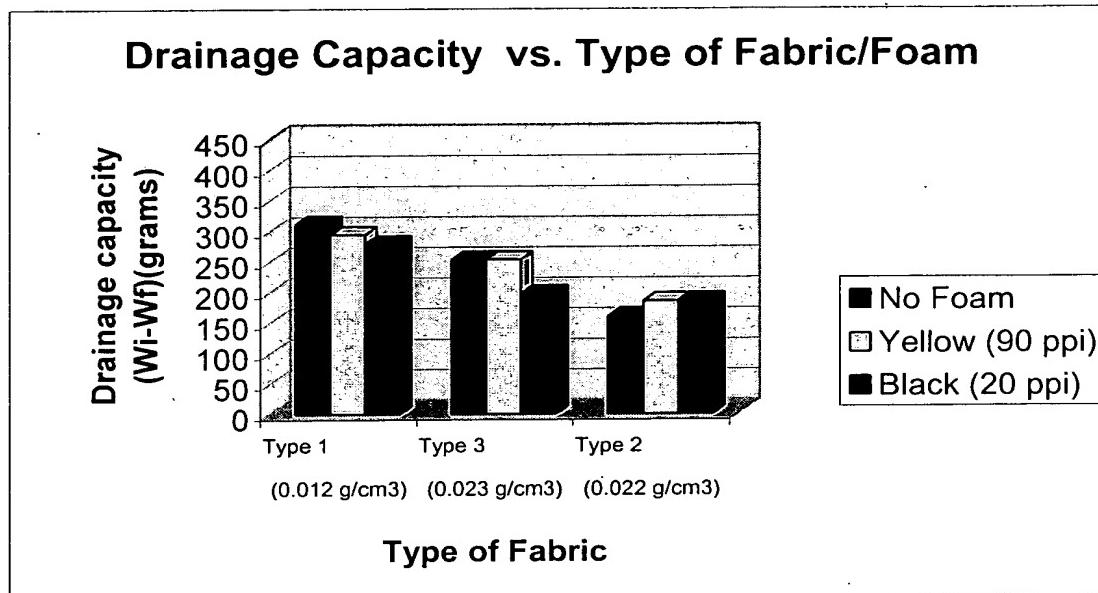
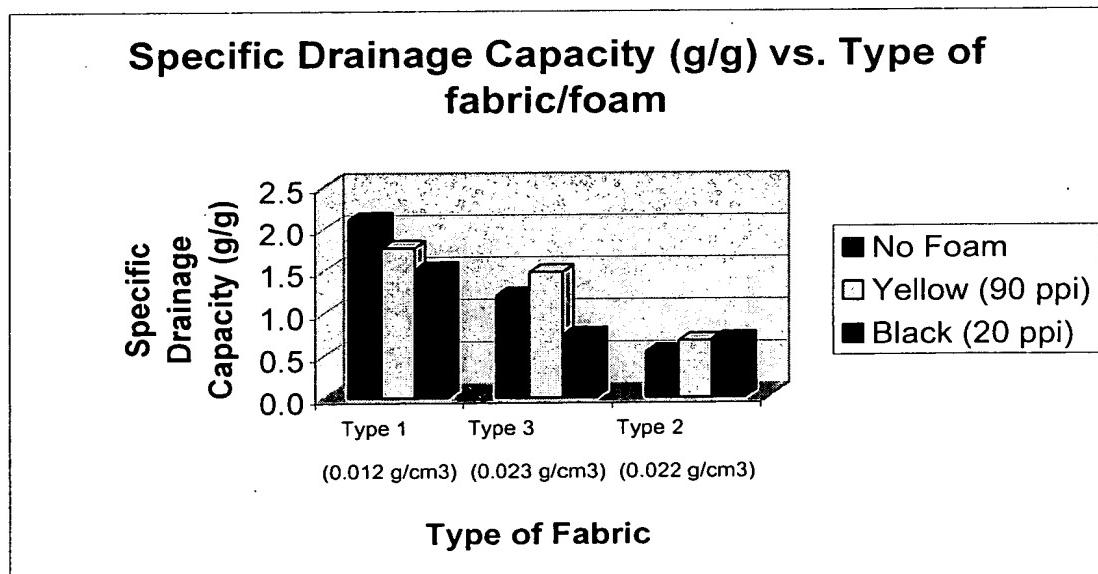


FIG. 23B



REPLACEMENT SHEET

Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW

Applicant: Pourdeyhimi et al.

Serial No.: 10/669,541

Atty Docket: 297/185/2

Drainage time for type 1 sample with/without foam materials

Drainage time-type 1

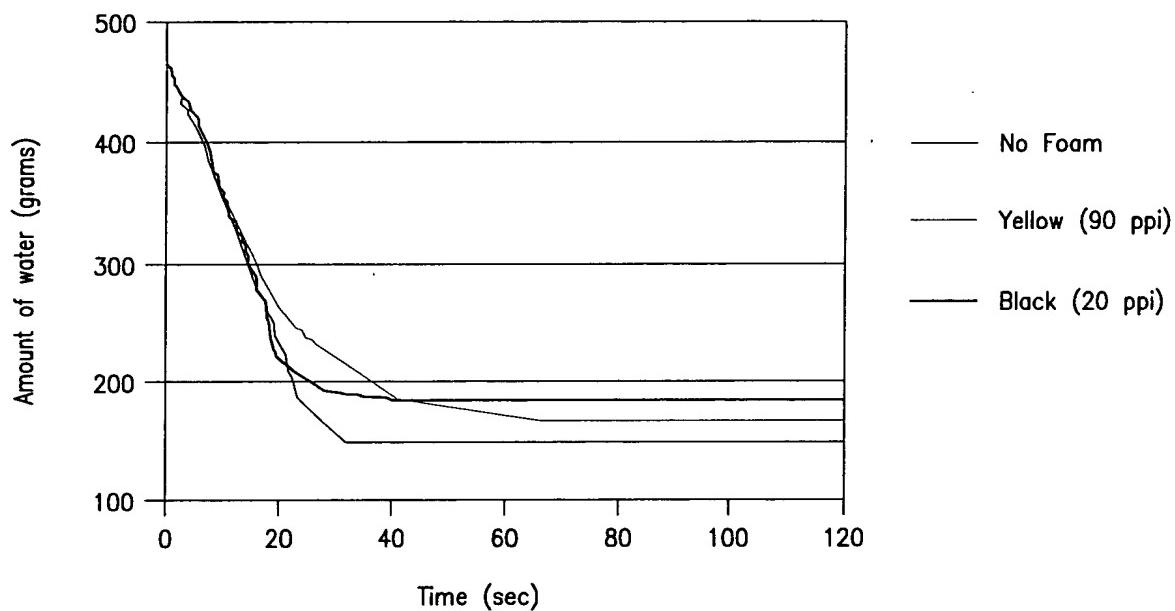


FIG. 24

REPLACEMENT SHEET
Title: GUTTER FILLERS AND PACKS WITH ENHANCED FLUID FLOW
Applicant: Pourdeyhimi et al.
Serial No.: 10/669,541
Atty Docket: 297/185/2

Drainage time for type 2 sample with/without foam materials

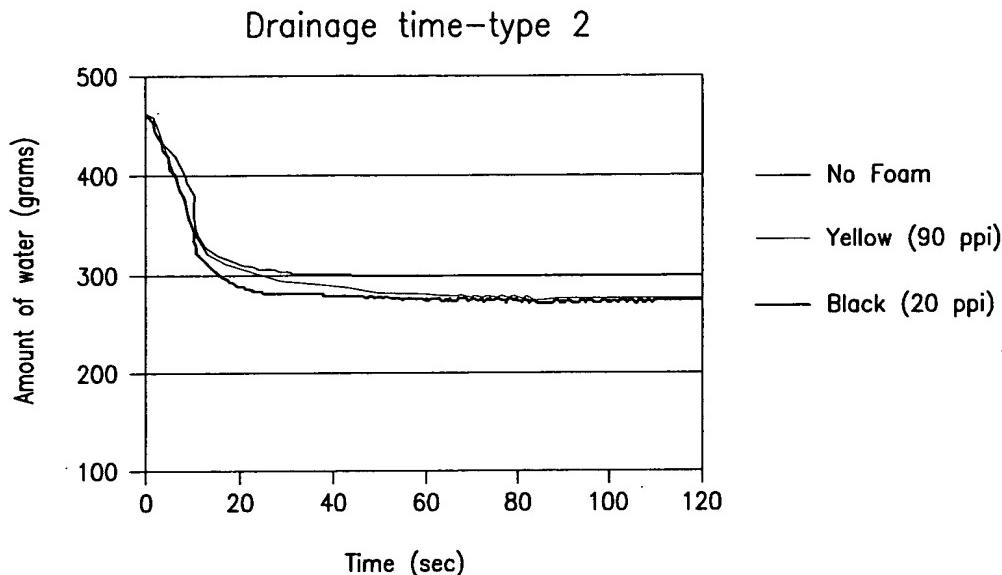


FIG. 25

Drainage time for type 3 sample with/without foam materials

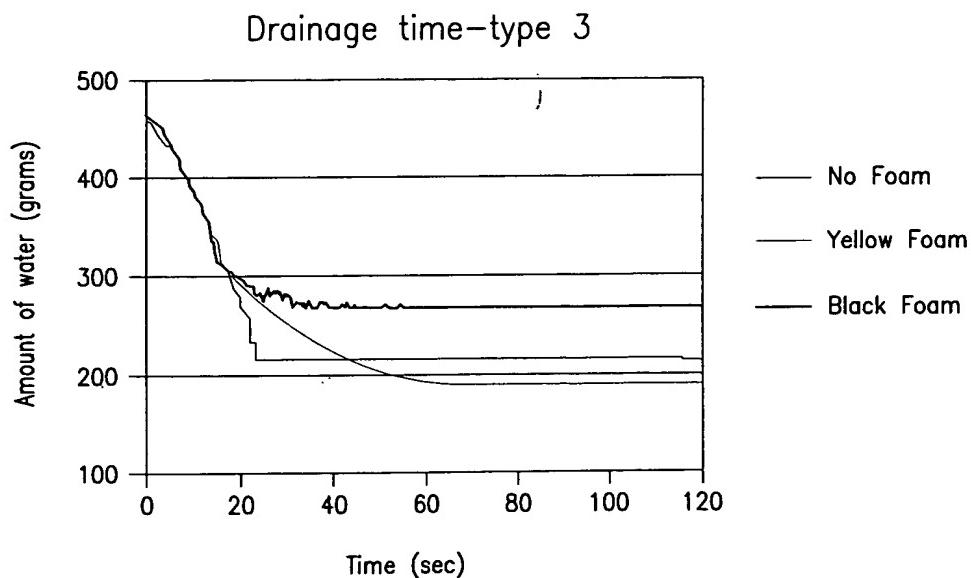


FIG. 26